Translation

PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC 00 320 H	FOR FURTHER A	CTION	See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP00/03860	International filing da 28 April 200			Priority date (day/month/year) 06 May 1999 (06.05.99)	
International Patent Classification (IPC) or no C12M 1/34	L				
Applicant	MICRONA	AS GMB	вн	·	
This REPORT consists of a total of	5 sheets,	rticle 36.	this cover sh	International Preliminary Examining neet. on, claims and/or drawings which have	
(see Rule 70.16 and Section 6	sis for this report and/o 607 of the Administrati	or sheets co	ontaining red	ctifications made before this Authority	
These annexes consist of a to	tal of 10 s	sheets.			
3. This report contains indications relati	ng to the following iter	ms:			
I Basis of the report					
II Priority					
III Non-establishment of	of opinion with regard t	to novelty,	inventive st	ep and industrial applicability	
IV Lack of unity of invo	ention				
V Reasoned statement citations and explana	under Article 35(2) wit ations supporting such	th regard t statement	o novelty, in	ventive step or industrial applicability;	
VI Certain documents of	ited				
VII Certain defects in the international application					
VIII Certain observations	on the international ap	plication			
Date of submission of the demand		Date of co	mpletion of t	this report	
17 November 2000 (17.11.00)		09 August 2001 (09.08.2001)			
Name and mailing address of the IPEA/EP		Authorized	d officer		
Facsimile No.		Telephone	No.		

INTERNATIONAL PRELEGARY EXAMINATION REPORT

I. Basis of	the report				
					ne receiving Office in response to an invitation port since they do not contain amendments.):
	the international	l application as	originally filed.		
E	the description,	pages	4-18	_, as originally filed,	
				_, filed with the demand,	
					13 July 2001 (13.07,2001)
		pages		_, filed with the letter of _	
	the claims,			_ , as originally filed,	
		Nos.		_ , as amended under Article	19,
		Nos		_ , filed with the demand,	
ĺ		Nos	1-25	_ , filed with the letter of _	13 July 2001 (13.07.2001) ,
		Nos.		_ , filed with the letter of	·
	the drawings,	sheets/fig	1/3 - 3/3	_ , as originally filed,	
		sheets/fig		_ , filed with the demand,	
		sheets/fig		_ , filed with the letter of	,
		sheets/fig		_ , filed with the letter of	·
2. The ame	endments have result	ed in the cancel	lation of:		
	the description,	pages			
	the claims,	Nos			
	the drawings,	sheets/fig			
		_			
				nendments had not been made, e Supplemental Box (Rule 70.)	, since they have been considered 2(c)).
	go beyond the diser	osare as mea, a	is indicated in th	e supplemental Box (Rule 70.	2(0)).
4. Addition	nal observations, if n	ecessary:			
4_					

INTERNATIONAL PREMINARY EXAMINATION REPORT

International application No.

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-25	YES
	Claims		NO
Inventive step (IS)	Claims	1-25	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-25	YES
	Claims		NO

2. Citations and explanations

1.) This report makes reference to the following documents:

D1: FR-A2 690 926

D2: WO-A-90/04645

D3: EP-A-0 608 153.

2.) For the following reasons the subject matter of Claims 1-25 can be considered novel and inventive within the meaning of PCT Article 33(2) and (3).

D1 (closest prior art) discloses a device wherein a bioreactor is coupled to a measurement device for determining certain parameters of the reaction mixture. The effective volume of the reactor is adjusted as desired by means of a movable separating body (plunger) (page 2, lines 1-26; page 4, lines 8-21; page 6, lines 3-6; Figures 1 & 3).

In the device as per Claim 1 (and Claims 2-25) the separating body divides the total volume of the container into two spaces situated above each other,

namely a reaction chamber having a small volume and a reservoir chamber, the two chambers being connected such that a liquid is able to circulate.

The separating body itself protects the reaction chamber against contamination, the presence of flow channels in the separating bodies permitting the simple addition to, or reception of culture medium or active substances in, the reaction chamber.

Despite its small volume the reaction chamber is also protected from excessive evaporation because it is linked with the reservoir chamber via the flow channel.

The devices of D1 to D3 do not have a reservoir chamber which is separated from a reaction chamber by a separating body and from which culture medium can be transferred if necessary into the reaction chamber for regeneration purposes by moving the separating body into a corresponding position. In D1 the separating body serves only to delimit the receiving volume of the reaction chamber (the "reservoir chamber" is filled with air). The separating body as per D3 (see column 3, lines 13-58 and column 4, lines 1-48; Figure 1) serves as a "switch" for the addition of reagents to the reaction chamber. The device as per D2 (see page 8, lines 34-36; page 9, lines 1-34; Figures 1-2) is a flow cell in which the reaction chamber is directly linked with the outside by the flow channels.